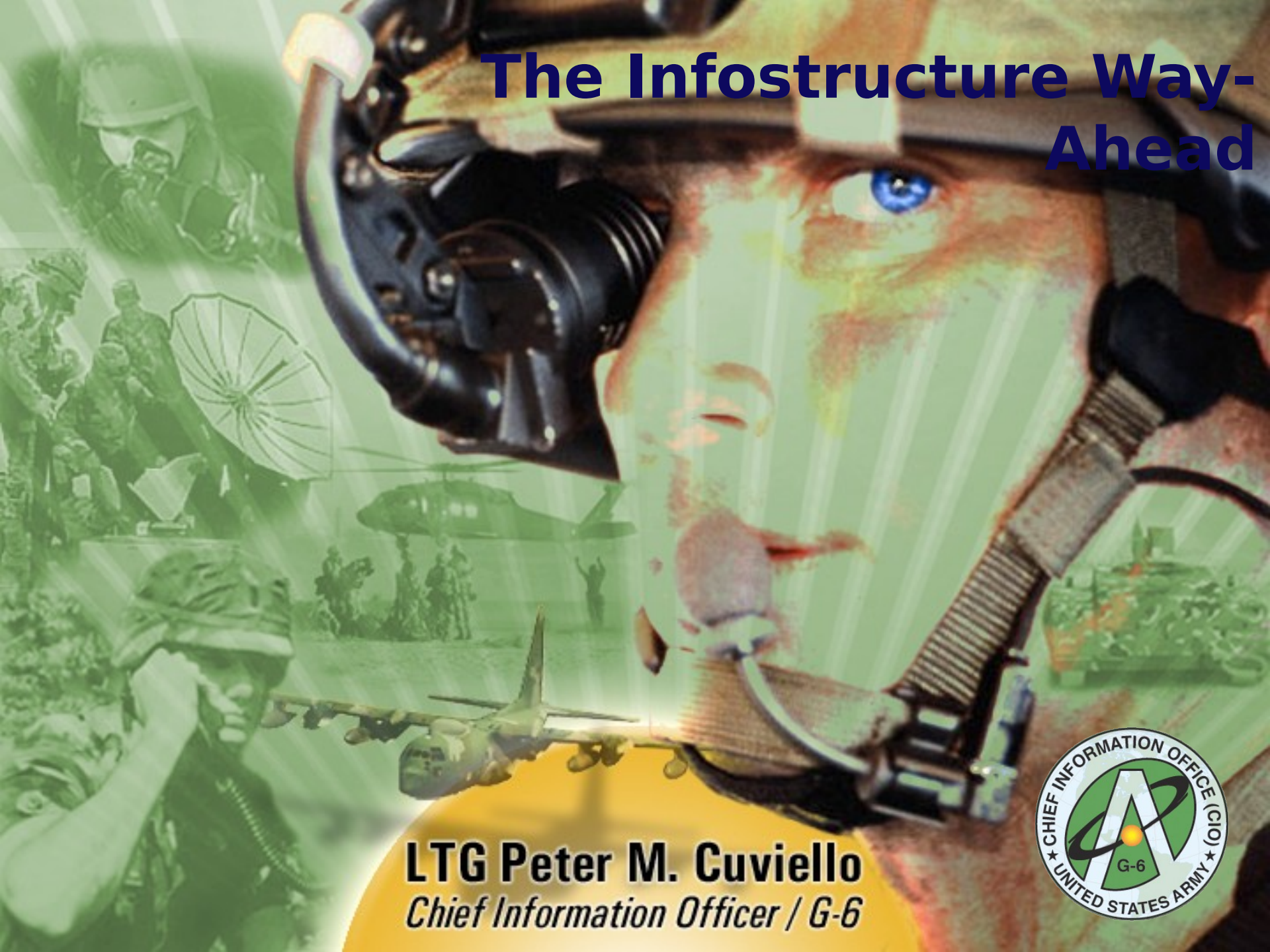
The Infostructure Way-Ahead



LTG Peter M. Cuviello

Chief Information Officer / G-6

Signal Regimental Vision

Transformation

Requires Revolutionary Changes

- Processes
- Institutions
- Technology
- Warfighting
- Culture
- Relationships

ARMY KNOWLEDGE MANAGEMENT...
The Strategic Transformer

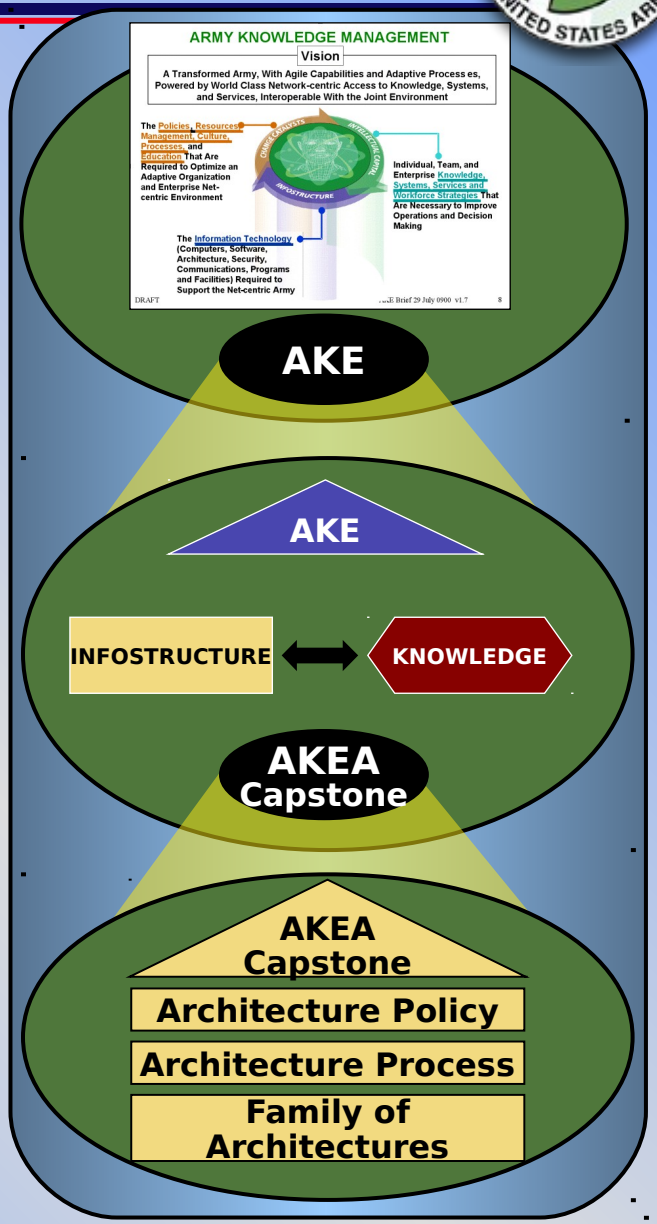
Knowledge Management Vision –
A transformed Army, with agile capabilities and adaptive processes, powered by a world-class network-centric access to knowledge, systems and services, interoperable with the Joint, inter-agency and Coalition

Army Knowledge Construct

Army Knowledge Management (AKM): STRATEGY: "To Transform the Army Into a Network-Centric, Knowledge-Based Force."

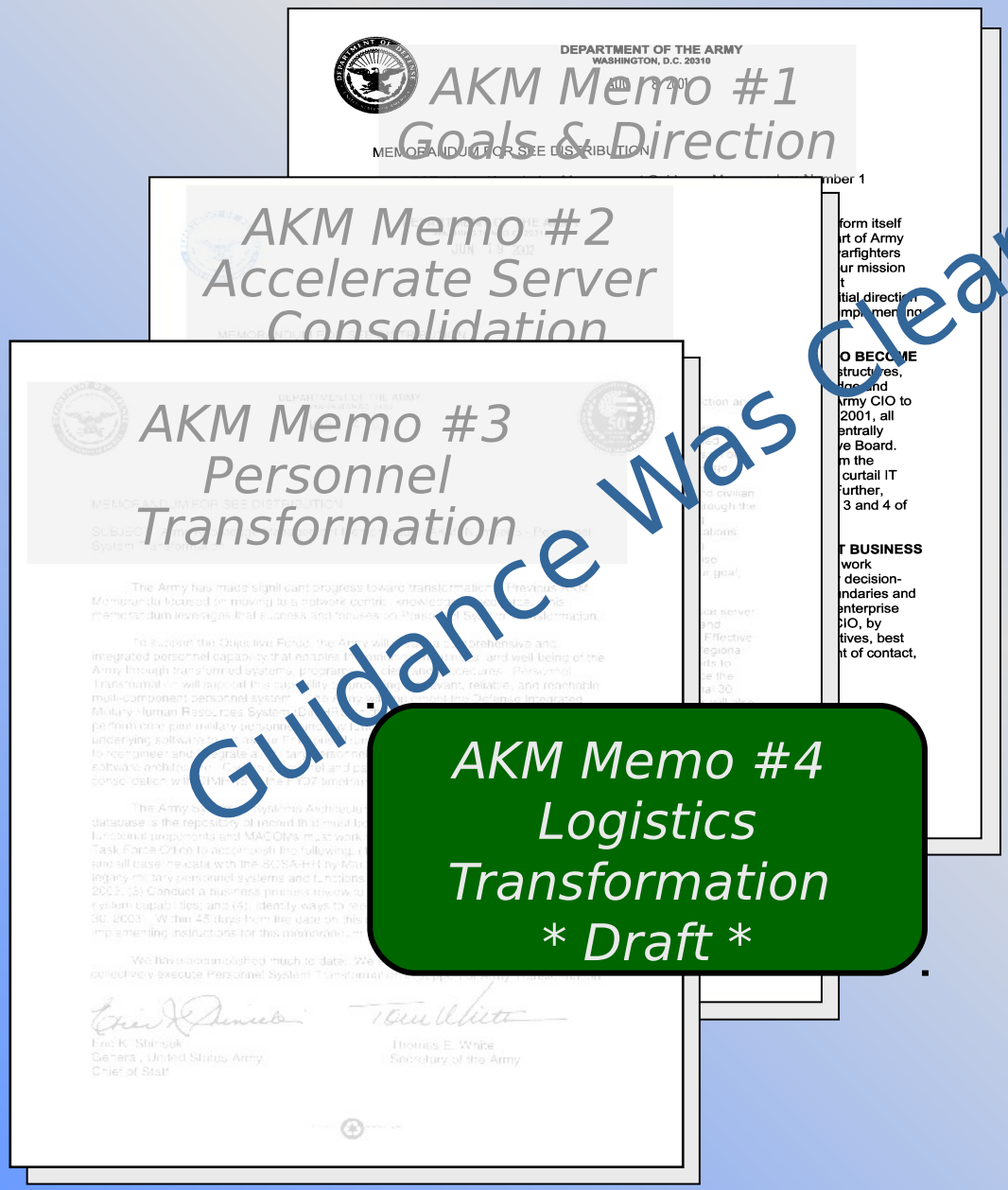
Army Knowledge Enterprise (AKE): INFOSTRUCTURE and KNOWLEDGE that enables the Objective Force to function as a "Network-Centric, Knowledge-Based Army".

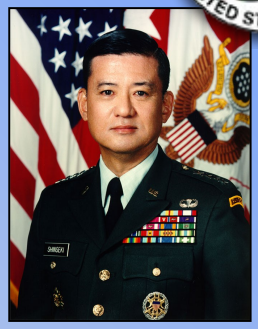
Army Knowledge Enterprise Architecture (AKEA) Capstone: BLUEPRINT for AKE that will enable the Army to achieve the AKM strategy.


ARMY KNOWLEDGE MANAGEMENT
Vision
A Transformed Army, With Agile Capabilities and Adaptive Process es, Powered by World Class Network-centric Access to Knowledge, Systems, and Services, Interoperable With the Joint Environment
The Policies, Resources Management, Culture, Processes, and Education That Are Required to Optimize an Adaptive Organization and Enterprise Net-centric Environment
Individual, Team, and Enterprise Knowledge, Systems, Services and Workforce Strategies That Are Necessary to Improve Operations and Decision Making
The Information Technology (Computers, Software, Architecture, Security, Communications, Programs and Facilities) Required to Support the Net-centric Army
DRAFT
AKE
AKE
INFOSTRUCTURE
KNOWLEDGE
AKEA Capstone
AKEA Capstone
Architecture Policy
Architecture Process
Family of Architectures

PEO EIS
PEO Enterprise Information Systems

Army Knowledge Management





AKM is the Army strategy to transform itself into a Network-Centric, Knowledge-Based force.

1. **Culture for a Knowledge-Based Organization**
2. **Adopt Best Business Practices and Knowledge Management**
3. **Manage the Infostructure at the Enterprise Level**
4. **AKO as the Enterprise Portal**

The road ahead is slippery

PEO EIS
PEO Enterprise Information Systems

AKM is Transforming the Army

	Traditional	Transitional	Transformed
C4IT Investments	• Local control	• Gaining control	• Enterprise oversight and management
Governance	• Decentralized	• Single authority established	• Integrated across all echelons
Processes	• Stovepipes	• Streamlining	• Army-wide Best Business Processes
Infostructure	• Redundant and Separate	• Consolidate • Improved Security	• Reduce IT footprint
AKO	• Duplicative Web sites	• Single portal	• Enterprise knowledge portal
Human Capital	• Classroom tra[illegible]ning	• Distributed, [illegible]ed	• Life-long, virtual learnin[illegible]

Islands of Automation

Enterprise Management

[illegible]ge-Based

PEO EIS
PEO Enterprise Information Systems

Knowledge Management

Collaboration

Warfighters

Business Stewards

Army Knowledge Portals

ENEMY SITUATION

FRIENDLY AWARENESS

COALITION

INTERAGENCY

LOGISITICS

JOINT

MEDICAL

PERSONNEL

INTEL

Achieving Knowledge Center Accessibility

Leveraging DoD/Joint Applications

DIMHRS - Defense Integrated Military Human Resources System

GCSS - Global Combat Service Support

FMMP – Financial Management Modernization Program

ERP Apps

Other Input

Classified Database

@ko
www.us.army.mil
Army Knowledge Online

@ko-s
www.us.army.smil.mil
Army Knowledge Online - SIPRNET

Internet

Sensitive But Unclassified

Secret

PEO EIS
PEO Enterprise Information Systems

Soldiers Accessing Knowledge

AKO – Secret on the SIPRNet

- Opns and Intell primary users
- Secret and below content
- Secure web email
- Secure Instant Messaging

22.8 K (Feb 03)

Registered Users

AKO - Unclassified on the NIPRNet

- Daily: > 190K users; **> 100K** unique
- Over **1.2 million** files downloaded
- Over **75** Single Sign-on Applications
- Over **200** community pages
- Over **19K** family member accounts
- Over **50%** Active Army visited in Jan 03

1.3 M (Feb 03)

- Internal
- External

The Army Homepage on the Internet

- The Army's public Web site
- Unrestricted access
- Content updated daily by CSA Strategic Communications Group

AKO - One Stop Shopping

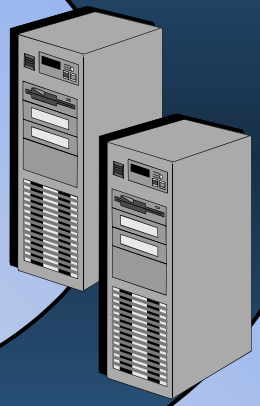
Knowledge-Based Objective Force

Migration of Army Battle Command & Control and Business Systems

Server Consolidation Objectives

PEO EIS Support

- **Driving the reduction of legacy functional systems**
- **Delivering web-based, commercial functional systems**



- Reduce Upgrade Costs
- Leverage Enterprise Licenses
- Decrease System Administration
- Improve Reliability
- Reduce Power & Cooling Costs

Army Enterprise Infostructure Transformation

Mission 3
Reduce Total Cost of Ownership

PEO EIS Support

Enterprise Contracts, Server Consolidation BCA

AKEA Biometrics PKI/CAC

AEI

G-6 AEI MSG NETCOM PEOs

Service Level Agreements, Customer Feedback

Repository Directory Services Single Network

Mission 4
Deliver secure web-based, Interoperable, and open systems

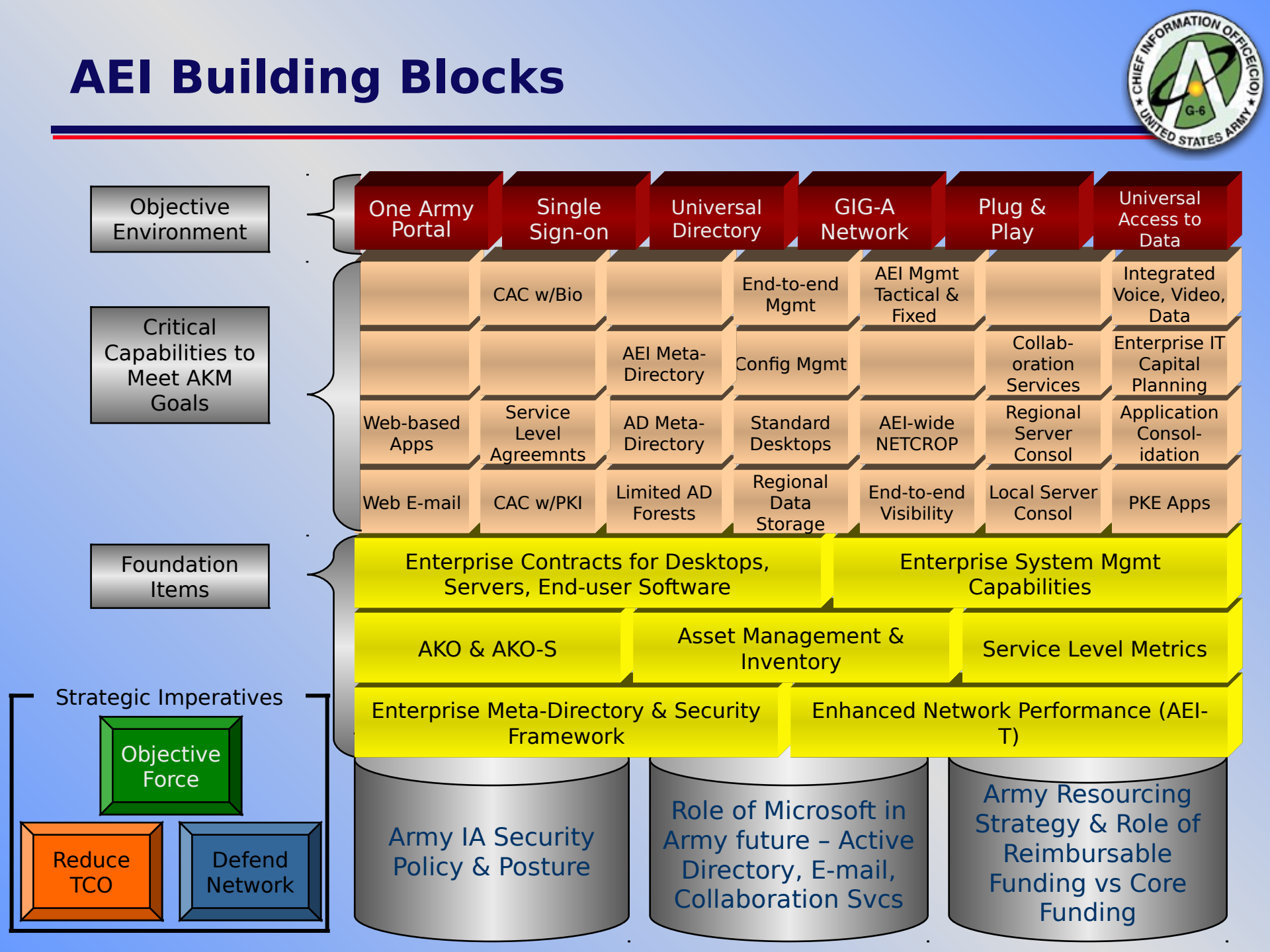
Mission 2
Provide oversight and policy to Army

Mission 1
Develop and implement the Army Enterprise Infostructure

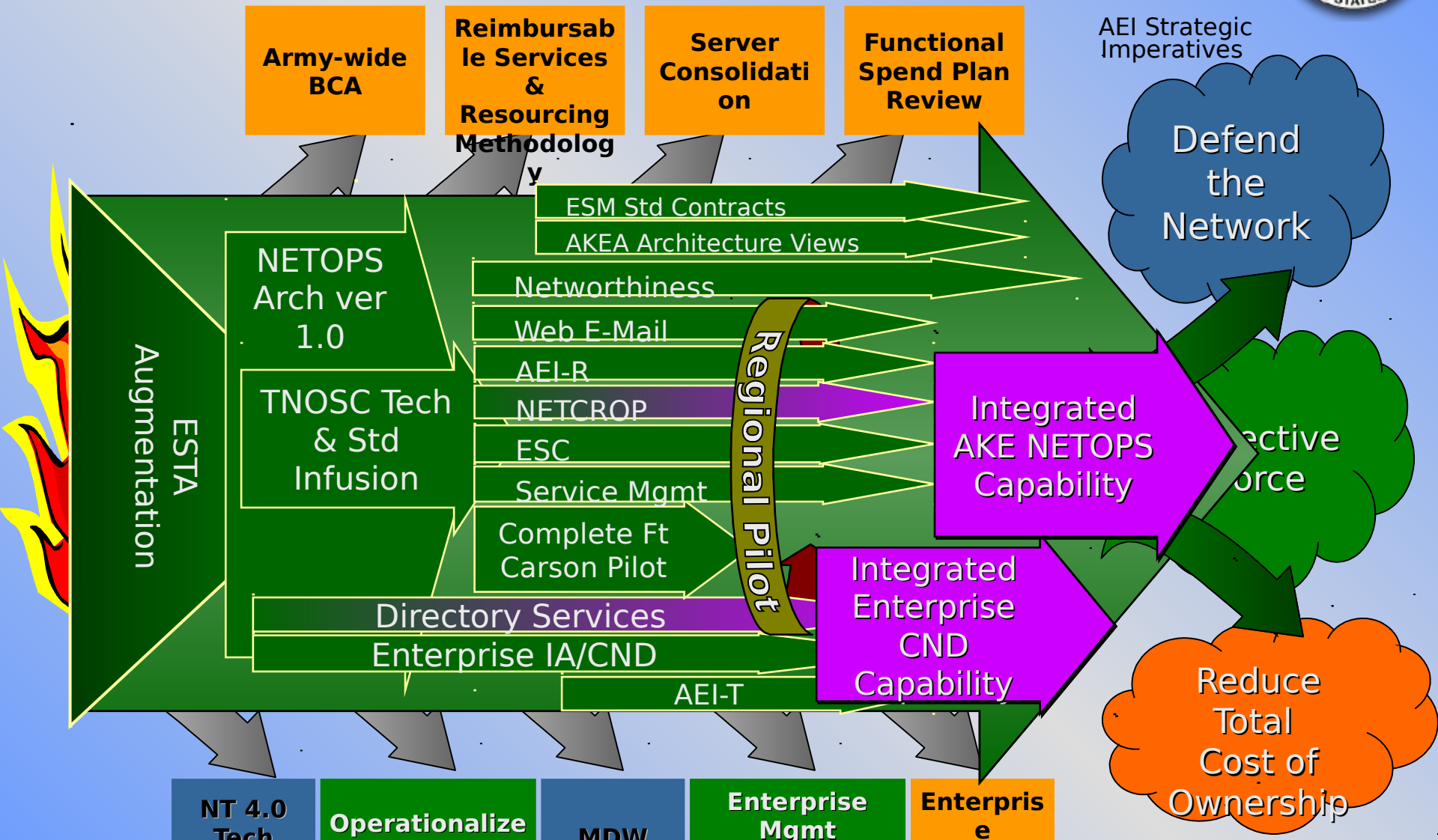
Mission 5
Move to performance based enterprise Service approach

"Transform the Army Enterprise Infostructure to provide decision dominance for the knowledge-enabled Warfighters and business

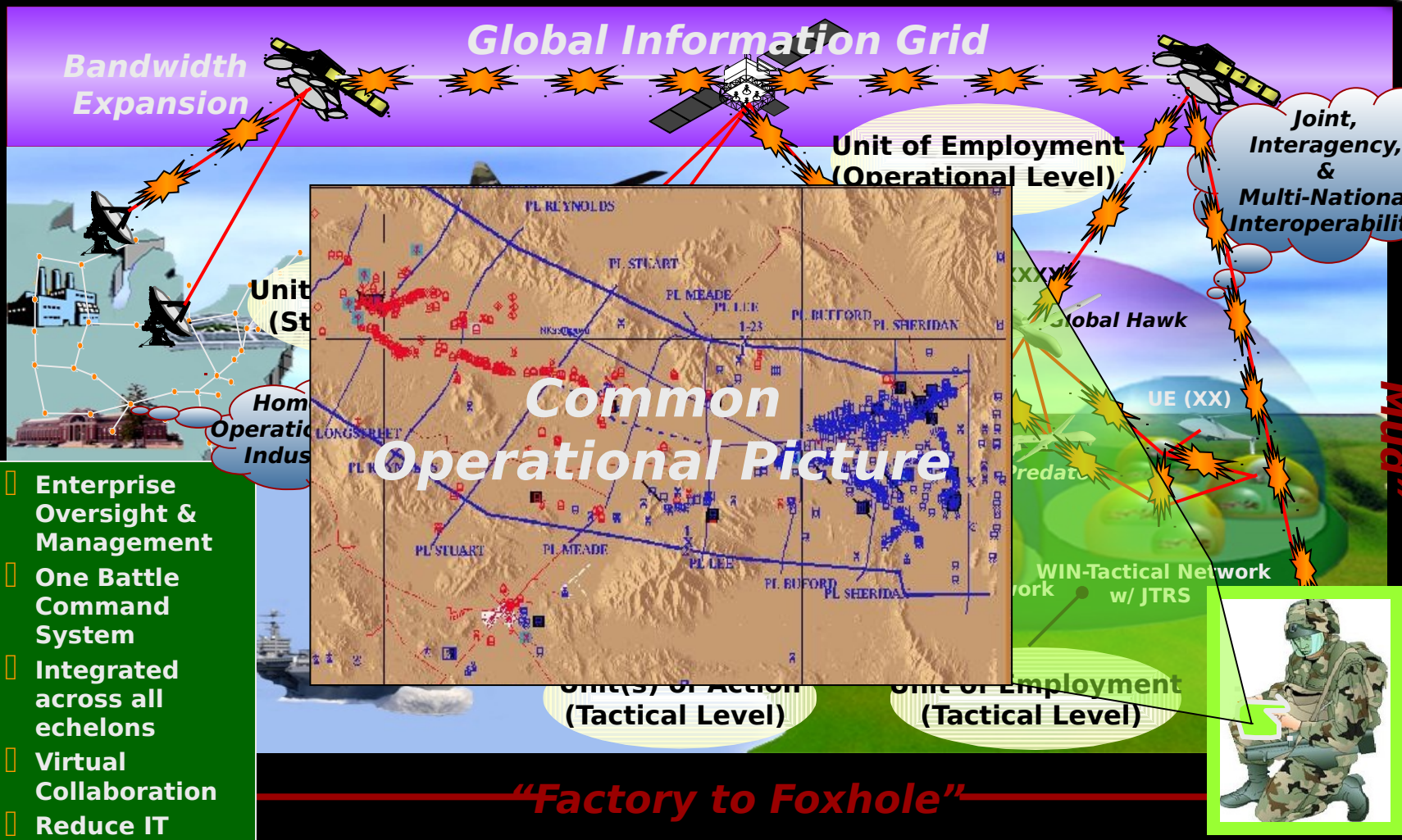
AEI Building Blocks



AEI Avenue of Advance



Objective Force Operational Concept



- Enterprise Oversight & Management
- One Battle Command System
- Integrated across all echelons
- Virtual Collaboration
- Reduce IT footprint
- Enterprise Knowledge Portal

The Objective Force C4 architecture provides the framework for vertical and horizontal integration, specifies interfaces and relationships internal and external to the Army… Joint, Interagency, and Multi-National